

Goode Core Analysis Service Inc.

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BAKERSFIELD, CALIFORNIA

February 6, 1990

Mr. C. F. Isselhardt
Texaco Producing Inc.
133 W. Santa Clara
Ventura, CA. 93001

Subject: Core Analysis Data
Well "Tunnel" #386
Cat Canyon Field
Santa Barbara, CA
File No. 90025

Dear Mr. Isselhardt;

Percussion type sidewall core samples from the subject well were submitted to our laboratory for permeability, porosity and fluid saturation determinations. The results of these measurements are presented in the accompanying report.

The samples were prepared by encasing in aluminum with 100 mesh end screens to hold the sample intact. The sleeves were seated to the sample by applying a pressure of 700 psig. Saturations were determined by Dean Stark Methods. Prior to measurement of porosity and permeability to air, the samples were dried at 235 degrees Fahrenheit. Porosity was determined by Boyle's Law Method using helium as the gaseous medium. A confining pressure of 250 psig was used during pore volume and permeability measurements. Samples insufficient for measurement by Dean Stark/Boyle's Law method were determined by the Summation of Fluids method. The analysis procedures are noted on the data page.

We are pleased to have performed this service and trust we will be called upon again in the future.

Very Truly Yours,

GOODE CORE ANALYSIS SERVICE



Bryan A. Bell

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GOOD CORE ANALYSIS SERVICE

Company: Texaco Prod. Inc.
Well: "Tunnel #386
Field: Cat Canyon
County, St: Santa Barbara, CA

Location: Sec 2-9N-33W
Elevation:
Drilg Fluid: Waterbase
File No.: 90025
Date: 2\5\1990
Core Type: Sidewall

Sample Number	Depth Feet	Perm Ka md	Por % P.V.	Residual Sat. Percent Pore		O/W Ratio	Total Liquid		Description
				Oil	Water				
1	1706.0	94.8	37.3	0.0	98.8	0.00	98.8	*	Sltstn gy frac no stn no lfu
2	1884.0	94.8	37.3	0.0	98.8	0.00	98.8	*	Sd gy vf-fgr vsly cly no stn no flu
3	1906.0	302.9	29.1	56.0	42.6	1.31	98.7	*	Sd dbrn vf-fgr slty cly incl dstn vdgd flu
4	1923.0	356.0	28.6	54.2	45.2	1.20	99.4	*	Sd dbrn vf-fgr slty dstn vdgd flu
5	1938.0	165.9	40.9	1.7	93.1	0.02	94.8	*	Sd tan-gy vfgr vsly vclysp stn dgd flu
6	1956.0	271.5	26.8	29.4	67.7	0.43	97.1	*	Sd brn vf-vcgr vsly cly dstn vdgd flu
7	1962.0								Sd gy vf-fgr vsly vcalc no stn no flu
8	1967.0	155.1	27.2	38.7	55.2	0.70	94.0	*	Sd brn vf-cgr slty cly dstn vdgd flu
9	1988.0	106.7	41.5	1.0	98.5	0.01	99.6	*	Sd brn-gy vfgr vsly vcl msp stn dgd flu
10	2002.0	350.0	27.7	40.3	47.3	0.85	87.6	**	Sd dbrn vf-fgr slty dstn vdgd flu
11	2027.0	83.9	30.8	39.3	55.7	0.71	95.0	*	Sd dbrn vfgr slty fcl incl dstn vdgd flu
12	2044.0	363.9	33.1	43.0	48.3	0.89	91.3	*	Sd dbrn vf-fgr slty dstn vdgd flu
13	2066.0	331.9	32.7	33.4	56.1	0.59	89.5	*	Same cly
14	2070.0	705.7	33.0	55.8	40.5	1.38	96.3	*	Sd dbrn vfgr slty dstn vdgd flu

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CORE ANALYSIS PROCEDURES AND CONDITIONS

Procedure (*)	Procedure (**)	Procedure (***)
Sampling Meth: Percussion	Percussion	
Drill Coolant: N/A	N/A	
Jacket Material: Aluminum	N/A	
Seat Conditions: Chilled	N/A	
Seat Pressure: Depth-100 (400-700)	N/A	
Saturation Meth: Dean Stark/Toluene	Retort	
Extraction Meth: Centrifuge	N/A	
Solvent(s) Used: Toluene		
Drying Cond: 235 Degrees F/Gravity	N/A	
Pore Vol Meth: Boyle's Law Helium	Summation of Fluids	
Confining Press: 250 Psig	N/A	
Grain Vol Meth: Boyle's Law Helium	Bulk-Fluids	
Bulk Vol Meth: Pore Vol+Grain Vol	Mercury Displacement	
Perm Meth: Air	Empirical	
Confining Press: 250 Psig	N/A	
Oil Density Use	0.97 gms/cc	